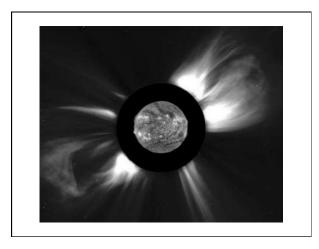


Nov 4, 2003, X class flare in EUV from group 48
"noise" is energetic proton hits (~450 km/s)



Solar Eruptions

• CME and *flares* can be incredibly *powerful*

(eg) "Carrington Event" of 1895 electrified transmission cables, set fires in telegraph offices, and produced Northern Lights so bright that people could read newspapers by their red and green glow.

• such an event today: *trillions* in damage (?)

